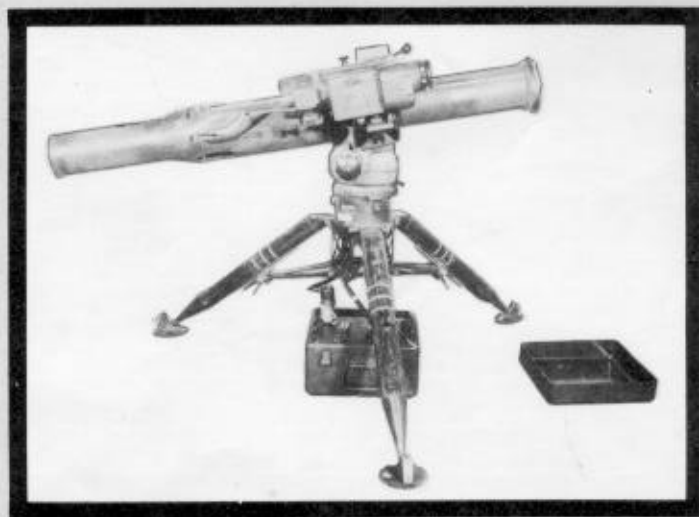


**ARMY FM 10-529
AIR FORCE TO 13C7-10-171**

**AIRDROP OF SUPPLIES
AND EQUIPMENT**

**RIGGING HEAVY
ANTITANK ASSAULT
WEAPON SYSTEM
(TOW)**

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C1, FM 10-529/TO 13C7-10-171

CHANGE
NO. 1

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Washington, DC, 17 March 1992

AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING HEAVY ANTITANK ASSAULT WEAPON SYSTEM (TOW)

This change adds the procedures for rigging M151A2, 1/4-ton trucks; M416, 1/4-ton cargo trailer; and TOW weapon system on the type V airdrop platform for low-velocity and LAPE airdrops. It also includes procedures for rigging cargo bags with missiles on a 12-foot, type V platform and rigging missiles in boxes on the type V platform. Also with this change, the distribution restriction statement must be changed as shown below. Also add a destruction notice to the cover of the basic manual as shown below.

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1. New or changed material is identified by a vertical bar in the margin opposite the changed material.
2. Remove old pages and insert new pages as indicated below:

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i through vii

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9-1 through 9-31

10-1 through 10-20

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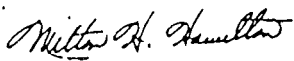
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FIELD MANUAL
NO 10-529
TECHNICAL ORDER
NO 13C7-10-171

DEPARTMENTS OF THE ARMY
AND THE AIR FORCE
Washington, DC, 16 October 1986

AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING HEAVY ANTITANK ASSAULT WEAPON SYSTEM (TOW)

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PREFACE

SCOPE

This manual tells and shows how to rig the heavy antitank assault weapon system (hereafter called the TOW weapon system) for LV and LAPE system airdrops from C-130 and C-141 aircraft on the type II modular platform, LAPE platform, and type V platform. The TOW weapon system consists of the launcher with tracking and control units and the TOW missile encased in a launching tube. This manual is designed for use by all parachute riggers.

The TOW weapon system and its components may be airdropped in the following ways:

- An M151A2, 1/4-ton truck with the mounted TOW weapon system and two missiles are rigged on a 12-foot platform for LV airdrop.
- An M151A2, 1/4-ton truck with the mounted TOW weapon system and a second M151A2 loaded with six missiles are rigged for LAPE airdrop.
- Two M274A5, 1/2-ton trucks are rigged together on an 8-foot platform. One truck carries the mounted TOW weapon system. The second truck also carries a TOW weapon system or a load of supplies.
- The TOW weapon system is rigged in an A-22 cargo container with eight missiles. Missiles for the TOW weapon system may also be airdropped separately.
- Six missiles are rigged in an M151A2, 1/4-ton truck on a 12-foot platform for LV airdrop.
- Thirteen missiles are rigged in an M151A2, 1/4-ton truck and an M416, 1/4-ton cargo trailer on a 16-foot platform for LV airdrop.
- Thirteen missiles are rigged in an M151A2, 1/4-ton truck and an M416, 1/4-ton trailer for LAPE airdrop. An additional nine missiles or other accompanying load may be rigged on this platform.
- Eight missiles are rigged with an M416, 1/4-ton cargo trailer on an 8-foot platform for LV airdrop.
- Twelve missiles are rigged in an A-22 cargo bag for LV airdrop.
- Forty-eight missiles are rigged in four A-22 cargo bags on a 12-foot platform for LV airdrop.
- Forty-eight missiles are rigged in four A-22 cargo bags on a 12-foot platform for LAPE airdrop.
- Forty-eight missiles are rigged on a 12-foot platform for LV airdrop.
- Forty-eight missiles are rigged on a 12-foot platform for LAPE airdrop.
- Twelve missiles are rigged in an A-22 cargo bag for high-velocity airdrop.

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CHAPTER 1

INTRODUCTION

1-1. Description of Items

The description of the items covered in this manual is as follows:

a. When mounted on the unrigged M151A2, 1/4-ton utility truck (firing vehicle), the weight of the TOW weapon system with two missiles in overpacks is 2,838 pounds (reducible to 2,660 pounds without missiles). It is 133 inches long and 64 inches wide. The height of the truck is 72 inches (reducible to 57 inches).

b. The M151A2, 1/4-ton utility truck (missile carrier) with six encased missiles may be used as the resupply load for the TOW weapon system. The unrigged truck with the six encased missiles weighs 2,830 pounds. It is 133 inches long and 64 inches wide. The height of the truck is 72 inches (reducible to 53 inches).

c. When mounted on the unrigged M274A5, 1/2-ton platform truck (mule), the TOW weapon system with six encased missiles weighs 1,541 pounds. Its length is 118 inches (reducible to 101 inches), and it is 49 inches wide. The height of the truck is 66 inches (reducible to 48 inches).

d. The M416, 1/4-ton trailer with seven encased missiles weighs 1,170 pounds. It measures 109 inches long, 61 inches wide, and 44 inches high.

e. Forty-eight TOW missiles in overpacks are rigged for low-velocity airdrop.

f. Forty-eight TOW missiles in overpacks are rigged for LAPE airdrop.

g. Twelve TOW missiles in overpacks are rigged in an A-22 cargo bag.

Note: EACH MISSILE IN ITS OVERPACK WEIGHS 87 POUNDS. ITS LENGTH IS 57 1/2 INCHES, ITS WIDTH IS 12 INCHES, AND ITS HEIGHT IS 12 INCHES.

1-2. Special Considerations

Special considerations are given below.

a. These loads contain dangerous materials, explosives and gasoline, as defined in AFR 71-4/TM 38-250. The materials must be packaged, marked, and labeled according to AFR 71-4/TM 38-250.

b. A copy of this manual must be available to the joint airdrop inspectors during the before- and after-loading inspections.